

NETWORK ROUTING EMPLOYING FREE-SPACE OPTICAL BROADCASTING

ABSTRACT OF THE DISCLOSURE

5 A method and a network to transfer data between computing environments employing
holographic transform functions. Each of the computing environments communicate via an
optical transceiver system that includes a plurality of optical sources, an optical detector, a
dispersive element in optical communication with the plurality of optical sources and a plurality
of holographic transform functions. Each of the detectors is uniquely associated with one of the
10 plurality of computing environments. The holographic transform function associated with one of
the detectors of the plurality of computing environments differs from the holographic transform
functions associated with the detectors of the remaining computing environments of the plurality
of computing environments.